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| Marshall Space Flight Center Organizational Work Instruction Form | | |
| Micrometer and Caliper Verification Logsheet | Document: EM30-Form-04 | Revision: Baseline |
| | Date: 02-11-2005 | Page 1 of 2 |

Micrometer or Caliper Identification: _____

Verification Performed By: _____ Date: _____

| | | |
|----------------|-------------------|-----------------------|
| Gage Block ID: | Calibration Date: | Calibration Due Date: |
|----------------|-------------------|-----------------------|

Work Request Number: _____

| | | | | |
|---------------------------------|--|--|-------------------|--------|
| Gauge Block Thickness (inches): | | | | |
| Micrometer Readings | | | | |
| Average | | | Acceptable Range: | YES NO |

| | | | | |
|---------------------------------|--|--|-------------------|--------|
| Gauge Block Thickness (inches): | | | | |
| Micrometer Readings | | | | |
| Average | | | Acceptable Range: | YES NO |

| | | | | |
|---------------------------------|--|--|-------------------|--------|
| Gauge Block Thickness (inches): | | | | |
| Micrometer Readings | | | | |
| Average | | | Acceptable Range: | YES NO |

| | | | | |
|---------------------------------|--|--|-------------------|--------|
| Gauge Block Thickness (inches): | | | | |
| Micrometer Readings | | | | |
| Average | | | Acceptable Range: | YES NO |

Acceptance Criteria:

The average measurement obtained should be within ± 5 units of the known calibration block dimension.
For example,

If the gauge block dimension is calibrated at 0.100 inches, then the acceptable measurement range average for the micrometer/caliper is 0.095 to 0.105 inches;

Or, if the block thickness is 0.1000 inches, then the acceptable range is 0.0995 to 0.1005.

Are 2 or more average readings outside the acceptable range? YES NO

If YES, clean the gauge blocks and micrometer tips, rezero the micrometer, and repeat the measurements. Different gauge blocks may be used, but use blocks that bracket the dimensions of the articles to be measured, and identify the new set of gauges along with the calibration date and the next calibration date.

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| <p>THE MASTER VERSION OF THIS FORM IS LOCATED AT http://maptis.nasa.gov/em30/em30masterlist.html This Form is referenced in EM30-WI-010. ALLOTHER ELECTRONIC AND PRINTER VERSIONS ARE FOR REFERENCE ONLY</p> |
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Repeated Measurements:

| | | |
|-----------------|-------------------|-----------------------|
| Gauge Block ID: | Calibration Date: | Calibration Due Date: |
|-----------------|-------------------|-----------------------|

| | | | | |
|---------------------------------|--|--|-------------------|--------|
| Gauge Block Thickness (inches): | | | | |
| Micrometer Readings | | | | |
| Average | | | Acceptable Range: | YES NO |

| | | | | |
|---------------------------------|--|--|-------------------|--------|
| Gauge Block Thickness (inches): | | | | |
| Micrometer Readings | | | | |
| Average | | | Acceptable Range: | YES NO |

| | | | | |
|---------------------------------|--|--|-------------------|--------|
| Gauge Block Thickness (inches): | | | | |
| Micrometer Readings | | | | |
| Average | | | Acceptable Range: | YES NO |

| | | | | |
|---------------------------------|--|--|-------------------|--------|
| Gauge Block Thickness (inches): | | | | |
| Micrometer Readings | | | | |
| Average | | | Acceptable Range: | YES NO |

Are 2 or more average readings outside the acceptable range? YES NO

If YES and the gauge blocks are suspect, submit the set to the Calibration Laboratory for recalibration.

If the micrometer accuracy is suspect, submit the micrometer for repair.

Record the corrective action(s) taken: